FIG. 1A

CVPCPD	: CDSCED	80				RLCAPL	140
298 QHCTVRRKTL	VFCTKTSDTV	70				YCALSKQEGC	130
268 DKCAPGTYLK	: :	09				NRICTCRPGW	120
238 DPETGRQLLCI	: YYDQTAQMCC	20				VETQACTREQI	110
48 178 208 238 268 298 ALLVFLDIIEWTTQETFPPKYLHYDPETGRQLLCDKCAPGTYLKQHCTVRRKTLCVPCPD	: :	40				STYTQLWNWVPECLSCGSRCSSDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPL	100
178 FLDIIEWTTÇ	aQVaftpyaf	30		YTDSWHTS	<u></u>	PLWNWVPECL	06
148 ALLVI	HALPA		328	YSYTI	-	STYT	
FRI-1	SW:TNR2_HUMAN			FRI-1		SW:TNR2_HUMAN	

-IG. 1B

FRI-1 TNFR profile	69 YLHYDPETGRQLLCDKCAPGTYLKQHC.TVRRKTLCV.PCPDY.SYTDSW
FRI-1	116 H
TNFR profile	1 Score 8 29 1 1 1 1 1 1 1 1 1

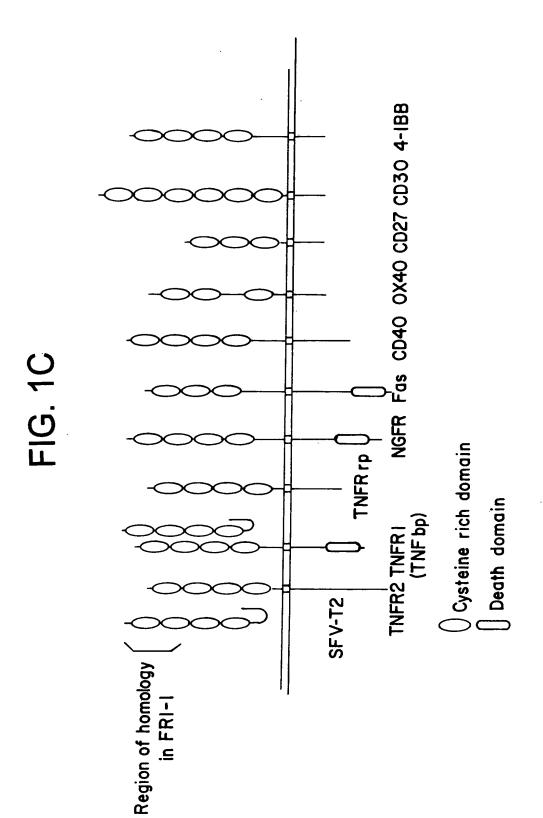


FIG.2A

AUG

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FIG.2B

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FIG.2C

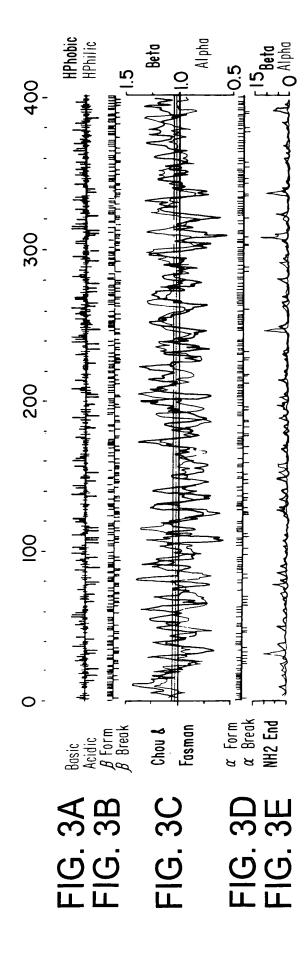
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		139	0						141	0					1	430			
CAC	SATO	GCT	GCI	rtci	CCC	GC?	CT.	rga	AAT	GGC	AGT	rga:	rrc(CTTI	rct(CAT	CAG'	rtgo	TGG
		145	_						147							490			
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		151	.0						153	0					1	550			
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		181							183							850			
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		235							237							390			
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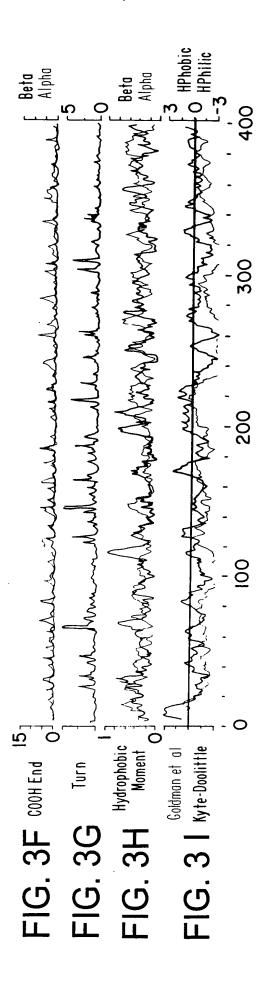
FIG.2D

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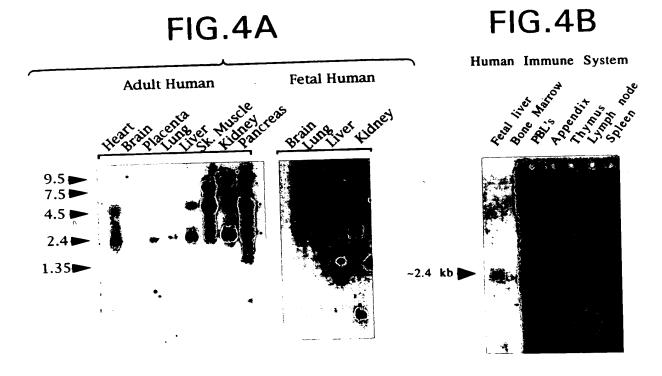
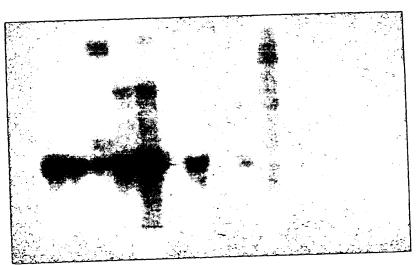


FIG.5



2 11 16 17 22 28 33 38 45 Kb 1 12 18 30 Transgenic Founders Controls

FIG.6A

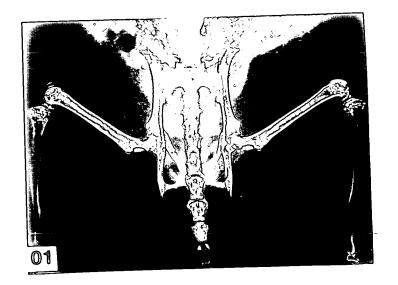


FIG.6B

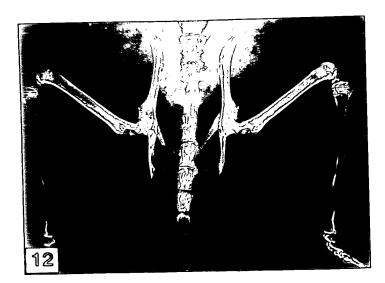


FIG.6C

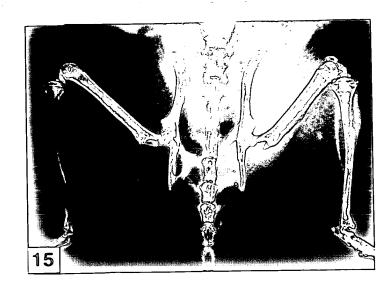


FIG.6D

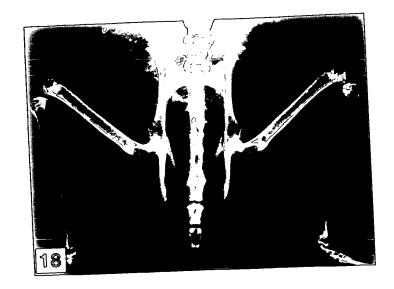


FIG.6E

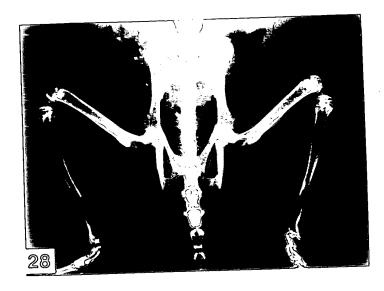


FIG.6F

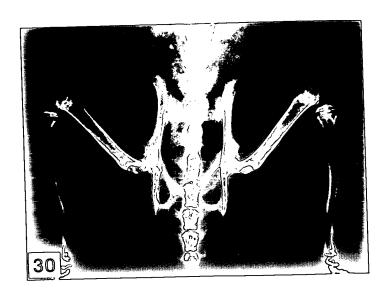


FIG.6G

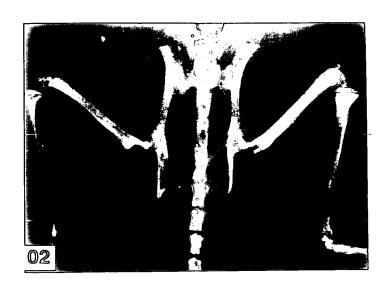


FIG.6H

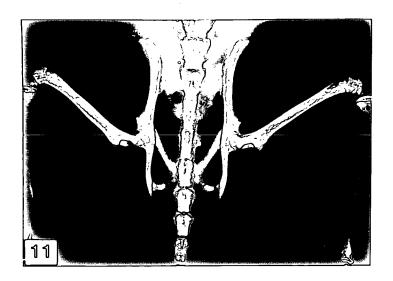


FIG.61

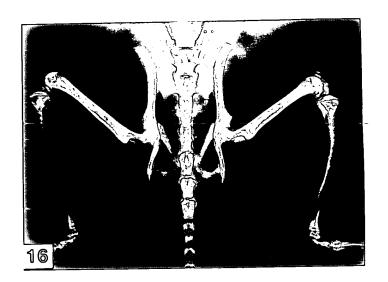


FIG.6J

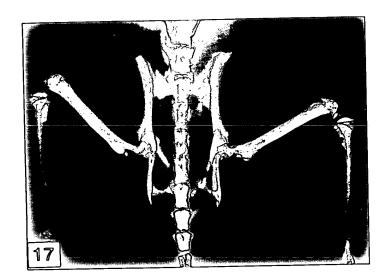


FIG.7A

FIG.7B





FIG.7C

FIG.7D



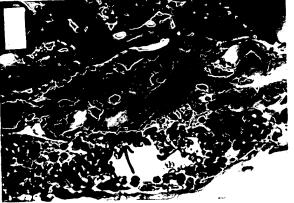
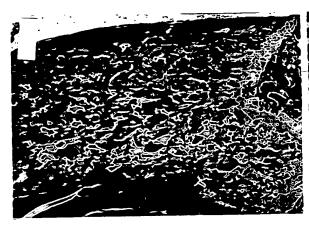


FIG.7E

FIG.7F



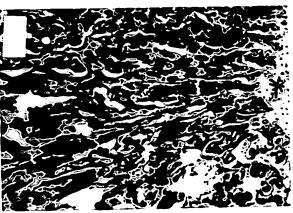


FIG.7G

FIG.7H



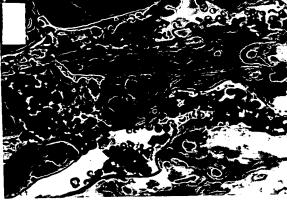


FIG.8A

FIG.8B



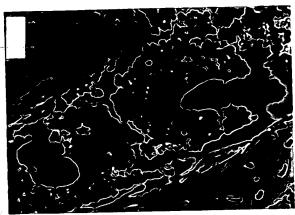
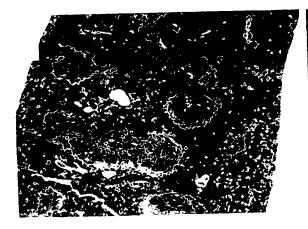


FIG.8C

FIG.8D



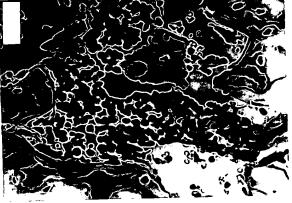


FIG.9A

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			_						33	0				~~~	200		\sim λ	CCA	ልሮሞG
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FIG.9B

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CTTCA

### FIG.9C

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GTATATA	10	<b></b>		, com	NCG	CCT	30 'GCG(	GAG	ACG(	CAC	CGG	AGC	GCT	rcgo	CCCF	'GC	JGC	_
GTATATA	ATAAC(	GTGA'	IGAG	,CG1	ACG	GO 1	90						11	10	ome (	- - در در	ccr	r
CGYCTC	70	CCCT	CACC	որդու	'CCG	GGC	ACC	ACA	ATG.	AAC	AAG	TTG	CTC	افی آر م	CIGO	JGC,	t.	•
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TCATTA	TGACC	BAAGA	AAC	CTC: S	rca: H	0	L	L	C	D	K	С	P	P	G	Т	Y	
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СТАСА	CAGAC	AGCT	GGC <i>P</i>	CAC	CAG	TGA	CGA	C.	T.	A WIW	C	S	P	V	C	K	I	3
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GCTGC	370				ame	c à z	᠐᠙ᢗ ᠫᠫᠬᠬ	CAC	CCA	CAA	CCG	CGT	rgT(	GCG	AAT	JCA	AG	GA T
GCTGC	AGTAC	GTCA	AGC	AGG <i>F</i> E	C	NI Ni	R	Т	Н	N	R	V	С	E	C	K		Ľ.
- ^	v	37 K	U	E	_	87								$\Delta / \Omega$	1			
AGGGC	430		יאכישי	ጥልርን	AGT"	гСТ	GCTT	GAA	ACA	ATA	GA(	CTO	GCC	CTC	CIG	GAI	. 1 1	G
	37	т 1		г.		_	_							<b>L</b> 41	1			
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E	~ <del>7</del> 3	30~				~~~	75	)U nCCC	יווייןיי צ	GTY	TC	TTG	GTA	GAC	TAAC	TTC	CC	TGG
TGCT	73 GTTCC	TAC	AAG	TTT	ACG(	CC.I.	AACI N V	JUUL J T	, 117	3	<b>J</b> :	L .	V	D	N	L	P	G
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#### FIG.9D

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		790	)				·~m >	~ ~	$C_{NC}$	יתגי	ΔΔΑ	ACG	GCA/	ACAC	CAGO	CTC	CAA	GAA	ACA
CACC	AAA	GTA	<b>AAA</b> C	CGCA	GAC	AG'I	GTF	IGA	GAGC	I	T.	R	Q	Н	S	S	Q	E	Q
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G	N		) V	Q	S	V	I.	•	135		_								
		13	30								ייימב	ΔA							
GT'	TTC	CTC	CACA	LTA	rGGC	GAG	'A'I'C	,CC	ATGC	3/17/	ורונ	1/1							

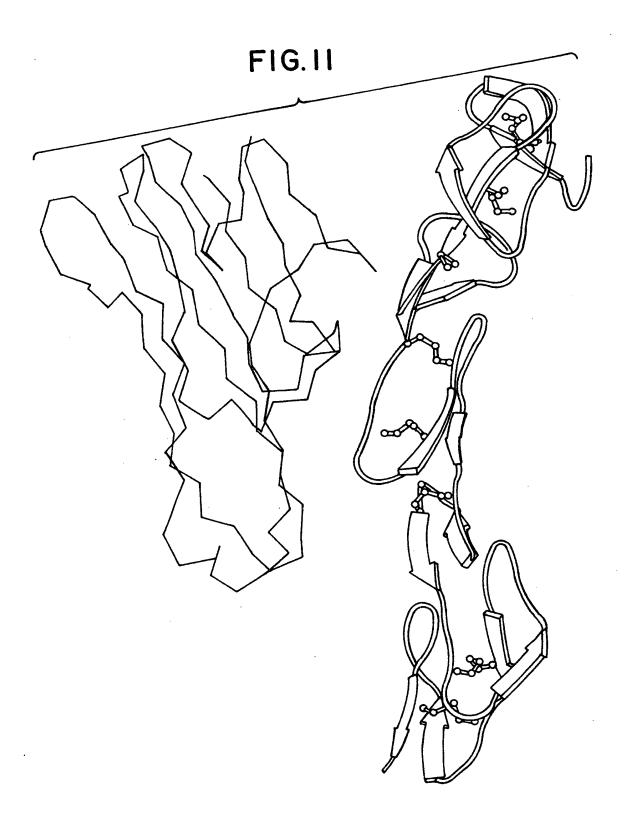
50 50	100	150 150 150	200 200 200
muosteo.frg MNKWLCCALLVLLDIIEWTTQETLPPKYLHYDPETGHQLLCDKCAPGTYL ratosteo.frg MNKWLCCALLVFLDIIEWTTQETFPPKYLHYDPETGRQLLCDKCAPGTYL Lucesteo.frg MNKWLCCALD ISIKWTTQETFPPKYLHYDFETSHQLLCDKCPPGTYL	muosteo.frg KQHCTVRRKTLCVPCPDHSYTDSWHTSDECVYCSPVCKELQSVKQECNRT ratosteo.frg KQHCTVRRKTLCVPCPDYSYTDSWHTSDECVYCSPVCKELQTVKQECNRT	Muosteo.frg HNRVCECEEGRYLEIEFCLKHRSCPPGSGVVQAGTPERNTVCKKCPDGFF ratosteo.frg HNRVCECEEGRYLELEFCLKHRSCPPGLGVLQAGTPERNTVCKRCPDGFF ratosteo.frg HNRVCECKEGRYLEIEFCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFF	muosteo.frg SGETSSKAPCIKHTNCSTFGLLLIQKGNATHDNVCSGNREATQKCGIDVT ratosteo.frg SGETSSKAPCRKHTNCSSLGLLLIQKGNATHDNVCSGNREATQNCGIDVT huosteo.frg SNETSSKAPCRKHTNCSVFGLLLTTQKGNATHDNICSGNSESTOKGIDVT

### FIG. 9F

250	300	350	400	401
250	300	350	400	401
250	300	350	400	401
muosteo.frg LCEEAFFRAVPTKIIPNWLSVLVDSLPGTKVNAESVERIKRRHSSQEQTratosteo.frg LCEEAFFRAVPTKIIPNWLSVLVDSLPGTKVNAESVERIKRRHSSQEQT huosteo.frg LCEEAFFRAVPTKFTPNWLSVLVDNLPGTKVNAESVERIKRQHSSQEQT	muosteo.frg FQLLKLWKHQNRDQEMVKKIIQDIDLCESSVQRHLGHSNLTEQLLALME ratosteo.frg FQLLKLWKHQNRDQEMVKKIIQDIDLCESSVQRHIGHANLTTEQLRILME hoosteo.frg FQLLKLWKHQNKDQDIVKKIIQDIDLCENSVQRHIGHANLTFEQLRSLME	muosteo.frg S L P G K K I S P E E I E R T R K T C K S S E Q L L K L L S L W R I K N G D Q D T L K G L M Y A L K ratosteo.frg S L P G K K I S P D E I E R T R K T C K P S E Q L L K L L S L W R I K N G D Q D T L K G L M Y A L K huosteo.frg S L P G K K V G A E D I E K T I K A C R P S D Q I L K L L S L W R I K N G D Q D T L K G L M H A L K	muosteo.frg HLKTSHFPKTVTHSLRKTMRFLHSFTMYRLYQKLFLEMIGNQVQSVKISC ratosteo.frg HLKAYHFPKTVTHSLRKTIRFLHSFTMYRLYQKLFLEMIGNQVQSVKISC huosteo.frg HSKTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKLFLEMIGNOVQSVKISC	muosteo.frg L ratosteo.frg L huosteo.frg L

### FIG 10

49	98	139
1tnrr CPQ - G KYI H P Q N N S I CCTK C H K G T Y L Y N D C P G P G Q D T D C R E C E S G S F T A S humoste P P K Y L H Y D E E T S H Q L L C D K C P P G T Y L K Q H C T A K - W K T V C A P C P D S	1thry ENHLRHCLSCS - KCRKEMGQVEISSCTVDRDTVCGCRKNQYRHYWSENLF humoste whysdelycspvc - Kelqyvk - Qecnryhnrvceckegrylei E - F	1tnrr OCFNCSLCLNG-TVHLSCQEKQNTVCT-CHAGFFLRENECVSC humoste -CLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNETSSKAPCRK



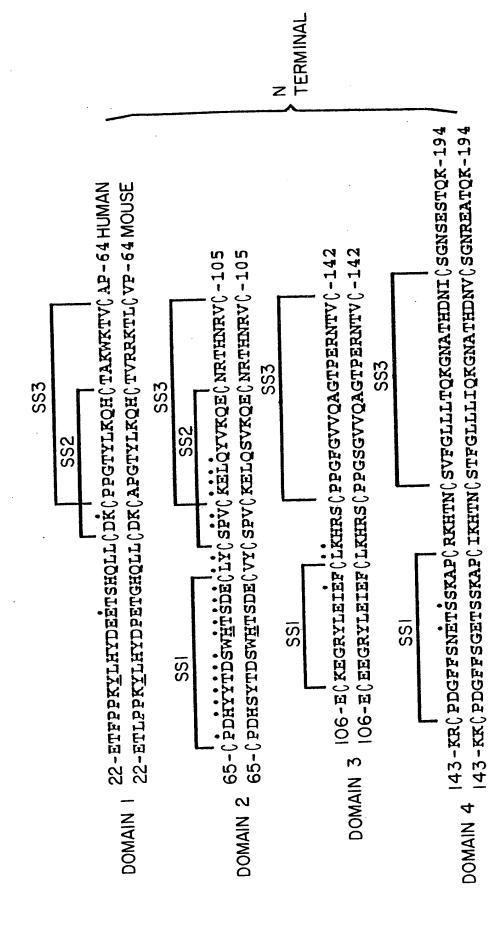


FIG. 12A

**TERMINAL** 

# FIG. 12B

195-GIDVTLEEAFFRFAVPTKFTPNWLSVLVDNLPGTKVNAESVERIKRQHSS-246 195-CIDVTLCEBAFFRFAVPTKIIPNWLSVLVDSLPGTKVNAESVERIKRRHSS-246

247-QEQTFQLLKLWKHQNRDQEMVKKIIQDIDL<mark>C</mark>ESSVQRHLGHSNLTTEQLLAL-298 247-QEQTFQLLKLWKHQNKDQDIVKKIIQDIDLÇENSVQRHIGHANLTFEQLRSL-298

299-MESLPGKKVGAEDIEKTIKAÇKPSDQILKLLSLWRIKNGDQDTLKGLMHALK-350 299-MESLPGKKISPEEIERTRKTCKSSEQLLKLLSLWRIKNGDQDTLKGLMYALK-350

351-HSKTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKLFLEMIGNQVQSVKISCL-401 351-HLKTSHPPKTVTHSLRKTMRFLHSFTMYRLYQKLFLEMIGNQVQSVKISCL-401

FIG. 13A

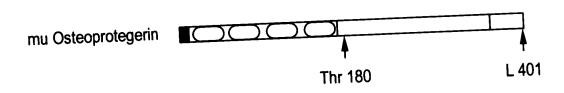


FIG. 13B

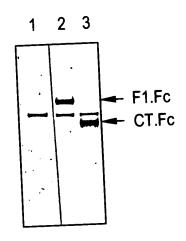
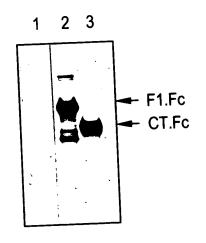
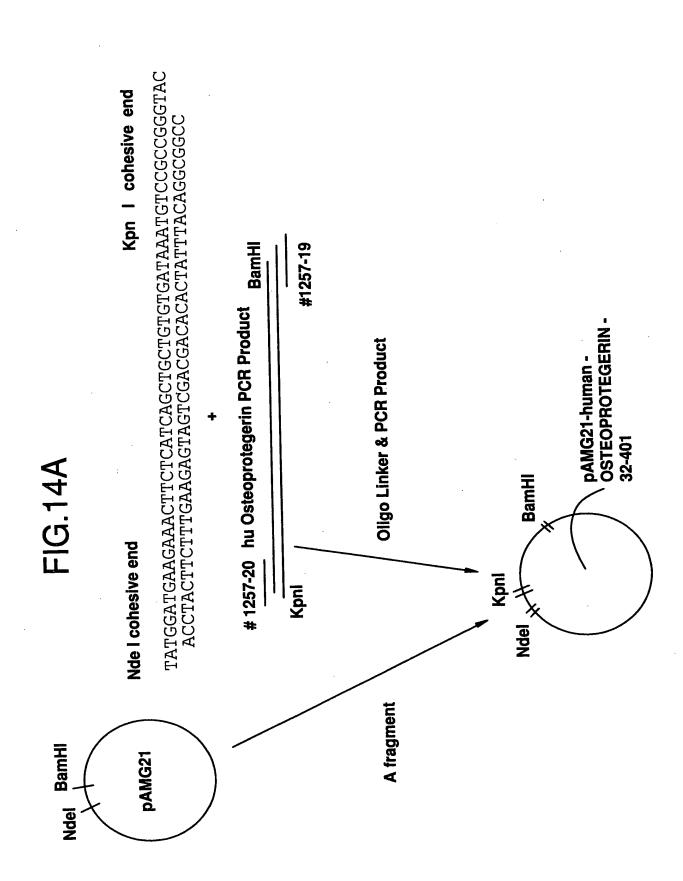


FIG. 13C





### FIG. 14B

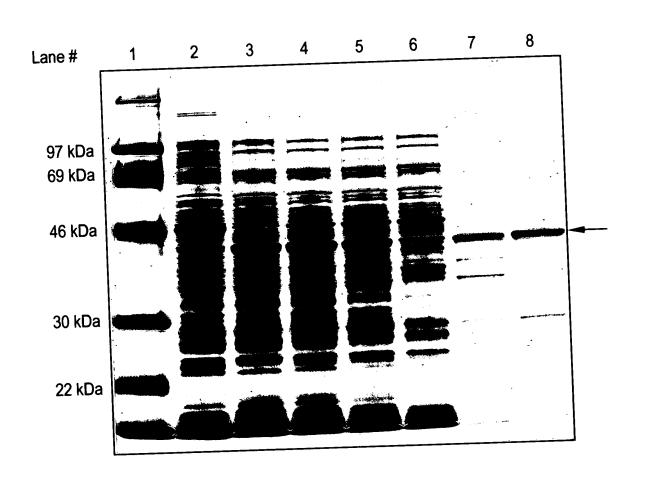


FIG. 15

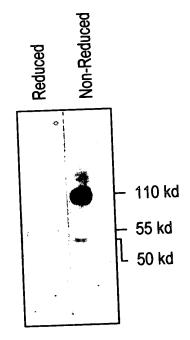
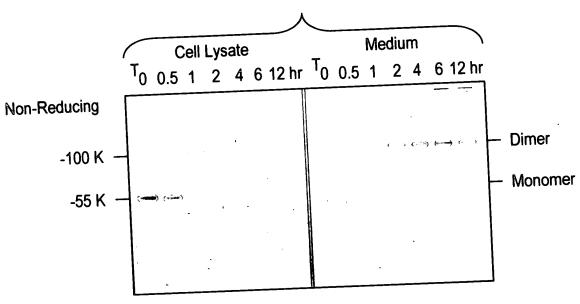


FIG. 16A



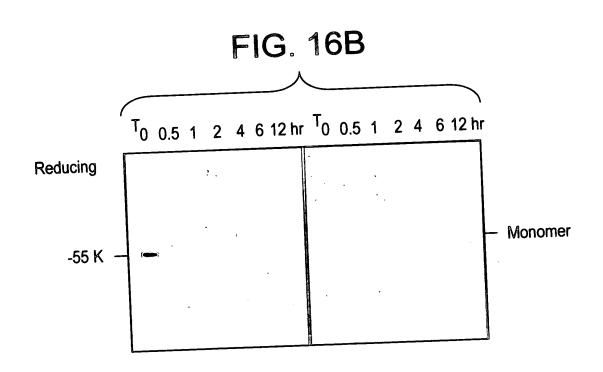


FIG. 17

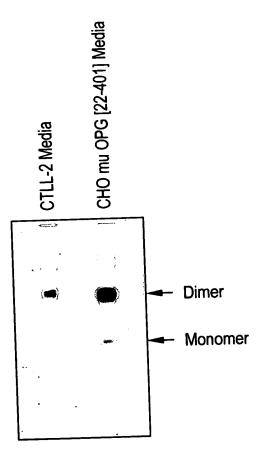
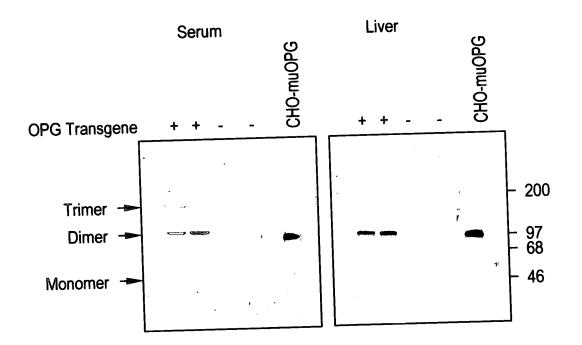


FIG. 18



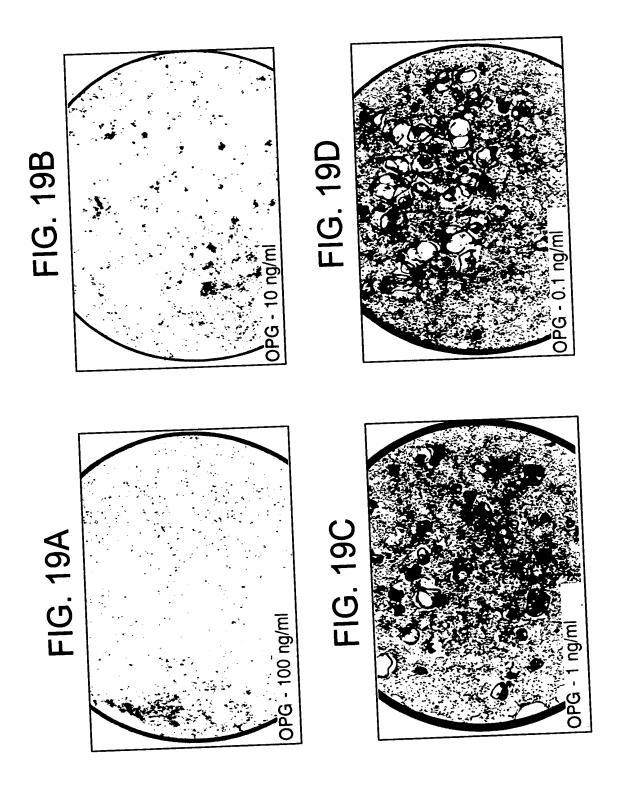


FIG. 19F

FIG. 19E

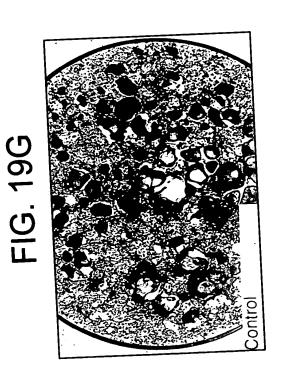
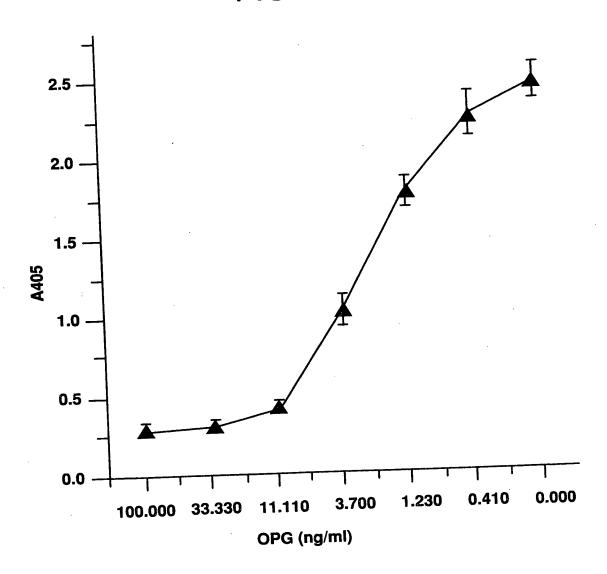
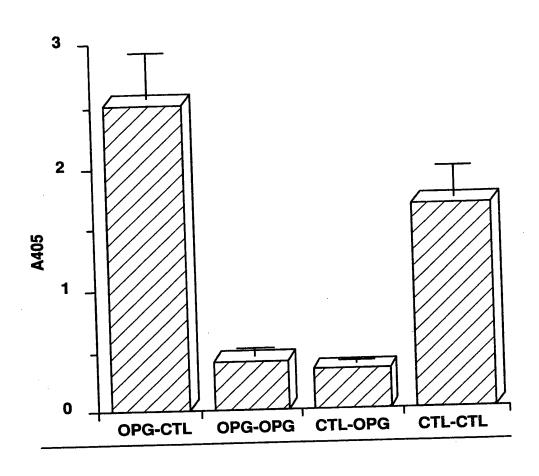


FIG.20







Growth Bone marrow cells CSF -1  4 days  Groups	Intermediate PGE2 + CSF-1	Terminal ST2 cells 1,25 (OH)2 D3 Dexamethasone
4 days	2 days	8 - 10 days
Groups CTL - CTL OPG - CTL OPG - OPG	OPG  100 ng/ml  100 ng/ml	OPG   100 ng/ml 100 ng/ml

Legend

FIG.22A

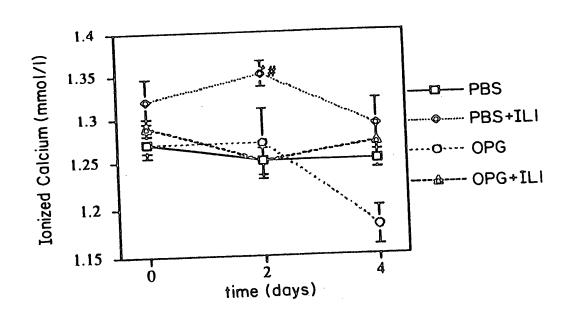
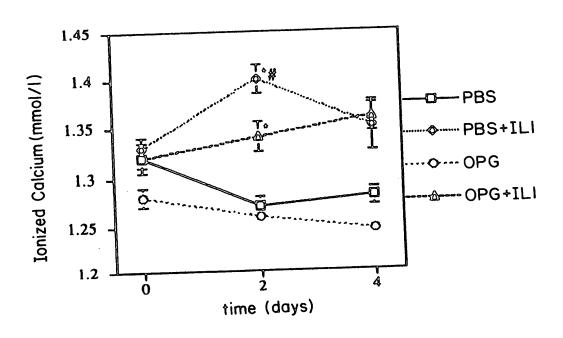


FIG.22B



Different to PBS, p < 0.05</li># Different to OPG + IL1, p < 0.05</li>

#### FIG. 23A

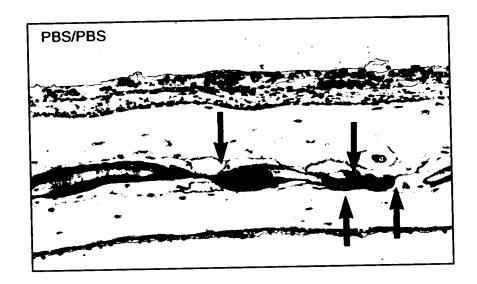


FIG. 23B

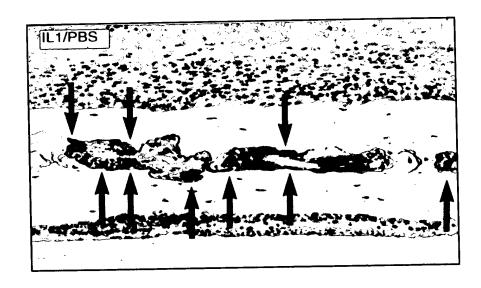


FIG. 23C

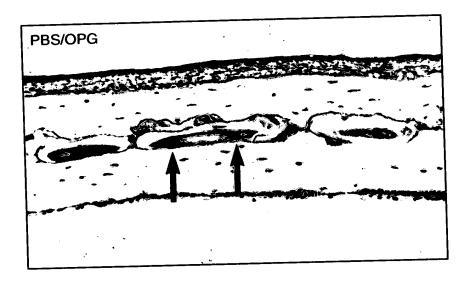
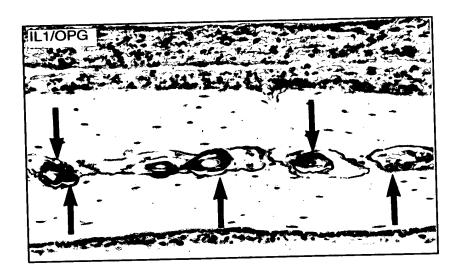


FIG. 23D



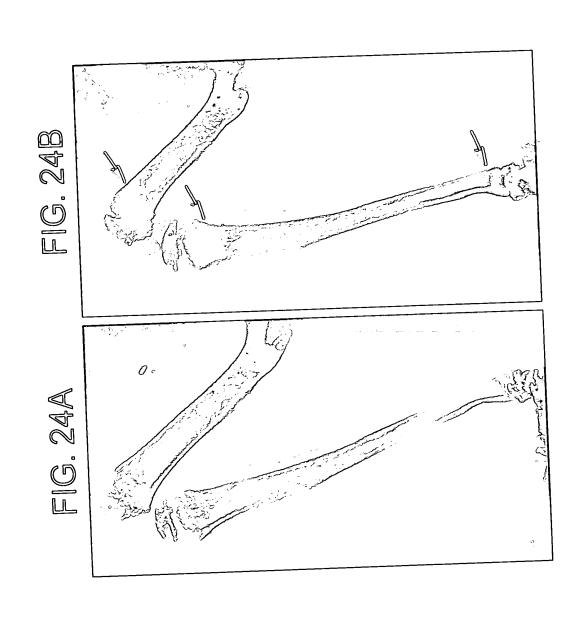
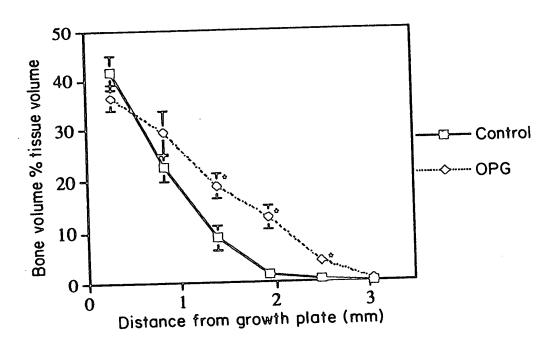


FIG.25



* Different to control p < 0.01

FIG. 26A

FIG. 26B

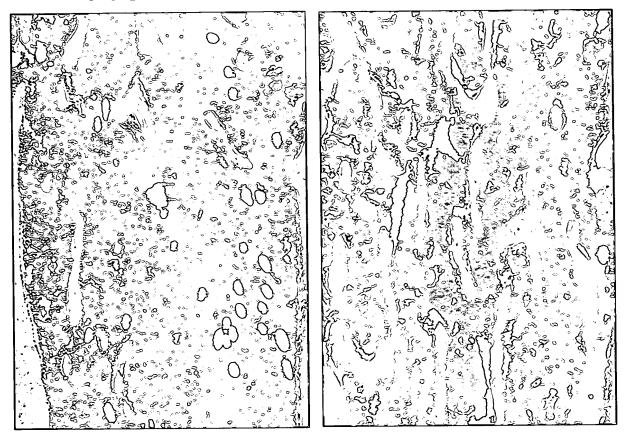


FIG.27

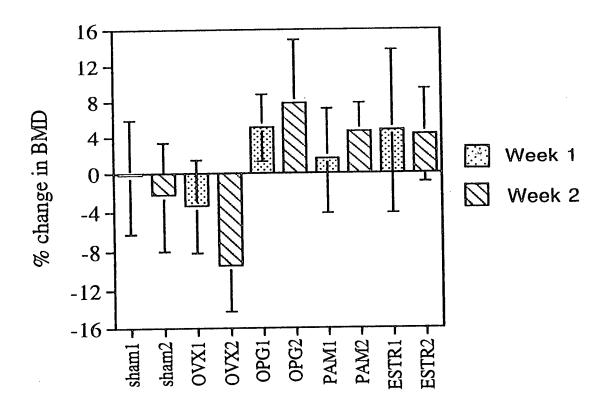
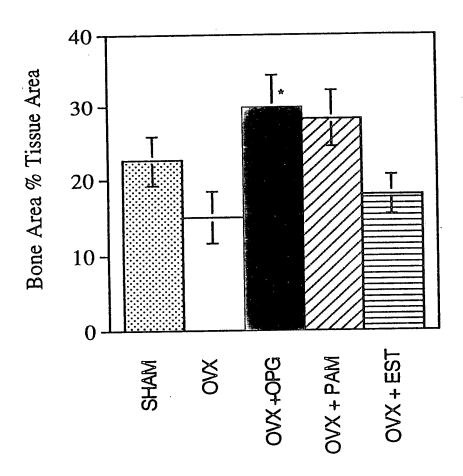


FIG.28



* Different to OVX p < 0.05

#### FIG. 29A

DraIII	
CATGGGAAATGTCAGAGTGGAGAACCACACCGAGTGCCACTGCAGCACTTGTTATTATCA	
1+ 6 GTACCCTTTACAGTCTCACCTCTTGGTGTGGCTCACGGTGACGTCGTGAACAATAATAGT	0
CAAATCCTAATAGTTTGCAGTGGGCCTTGCTGATGATGGCTGACTTGCTCAAAAGGAAAA 61+ 1 GTTTAGGATTATCAAACGTCACCCGGAACGACTACTACCGACTGAACGAGTTTTCCTTTT	20
TTAATTTGTCCAGTGTCTATGGCTTTGTGAGATAAAACCCTCCTTTTCCTTGCCATACCA  121+ AATTAAACAGGTCACAGATACCGAAACACTCTATTTTGGGAGGAAAAGGAACGGTATGGT	180
TTTTTAACCTGCTTTGAGAATATACTGCAGCTTTATTGCTTTTCTCCTTATCCTACAATA	240
AAAAATTGGACGAAACTCTTATATGACGTCGAAATAACGAAAAGAGGAATAGGATGTTAT	
TAATCAGTAGTCTTGATCTTTTCATTTGGAATGAAATATGGCATTTAGCATGACCATAAA 241++ ATTAGTCATCAGAACTAGAAAAGTAAACCTTACTTTATACCGTAAATCGTACTGGTATTT	300
AAGCTGATTCCACTGGAAATAAAGTCTTTTAAATCATCACTCTATCACTGAATTCTAATT 301+	360
TTCGACTAAGGTGACCTTTATTTCAGAAAATTTAGTAGTGAGATAGTGACTTAAGATTAA	300
TTTTCTGAAAAGTTTCAAGCCAGTTACTTTTGATAGGATTAACGGAAGGGAGTGAGCCAG 361+ AAAAGACTTTCAAAGTTCGGTCAATGAAAACTATCCTAATTGCCTTCCCTCACTCGGTC	420
XcmI	
TGGGTGAGGTGGGTTCCCATGTAGTCAATGGCCTAATACTGGAGAATCTTATTCTAACCA	480
ACCCACTCCACCCAAGGGTACATCAGTTACCGGATTATGACCTCTTAGAATAAGATTGGT  AGCCTTCCAGAGCAAGCTGTGAGCCCCTCAGACAGTGGGCTACTCATGAGACAGTCCATT	
481+	540
TCGGAAGGTCTCGTCGACACTCGGGGAGTCTGTCACCCGATGAGTACTCTGTCAGGTAA	J-10
GGGGTAAAGGAAGAAATATAACTTCTATTTCTATTCATTTGCACATTGTCTTTAGATGC	
541+ CCCCATTTCCTTCTTTATATTGAAGATAAGATAAGTAAACGTGTAACAGAAATCTACG	600
CCATTTGGGTGAGTTTTATAGAAGTACAGCTACATTAAAAAATAGAACTGATAATAGATA	

GGTAAACCCACTCAAAATATCTTCATGTCGATGTAATTTTTTTATCTTGACTATTATCTAT

#### FIG. 29B

AGGCTTTAAAAAAACTTCATTCATCACCAGTTTGTCAAGATTCCATTTCAAAGTGAAAAA	720
661+ TCCGAAATTTTTTTGAAGTAAGTAGTGGTCAAACAGTTCTAAGGTAAAGTTTCACTTTTT	720
CCAATTTCTAACGGGTTGGTAAACACAGCAGATGGCAGGGTGAAAAATTAAAGTGAGTG	780
GGTTAAAGATTGCCCAACCATTTGTGTCGTCTACCGTCCCACTTTTTAATTTCACTCAC	,00
ATGTACCTTTAAAGAAACACTGAAATGCACACACATTACTTAACCTGCTCATTCAT	840
TACATGGAAATTTCTTTGTGACTTTACGTGTGTGTAATGAATTGGACGAGTAAGTA	
TTACATATAGTCTTGGGTGTACAAAATTTAGAAATAAATA	900
AATGTATATCAGAACCCACATGTTTTAAATCTTTATTTAT	
GCTGCACAAATAGGATGCGCGGCGGGCCTTGGTAGGGGCGGAGCCTTAGCTGCACAAATA 901+ CGACGTGTTTATCCTACGCGCCGCCCGGAACCATCCCCGCCTCGGAATCGACGTGTTTAT	960
GGATGCGCGGGGCCTTGGTGGGGGGCGGGCCTAAGCTGCGCAAGTGGTACACAGCTCA 961+	1020
CCTACGCGCCGGGAACCACCCCGGCCCGGATTCGACGCGTTCACCATGTGTCGAGT	
GGGCTGCGATTTCGCGCCAAACTTGACGGCAATCCTAGCGTGAAGGCTGGTAGGATTTTA  .021+ CCCGACGCTAAAGCGCGGTTTGAACTGCCGTTAGGATCGCACTTCCGACCATCCTAAAAT	1080
TCCCCGCTGCCATCATGGTTCGACCATTGAACTGCATCGTCGCCGTGTCCCAAAATATGG  1081+ AGGGGCGACGGTAGTACCAAGCTGGTAACTTGACGTAGCAGCGGCACAGGGTTTTATACC	1140
GGATTGGCAAGAACGGAGACCTACCCTGGCCTCCGCTCAGGAACGAGTTCAAGTACTTCC	
.141++++++	1200
AAAGAATGACCACAACCTCTTCAGTGGAAGGTAAACAGAATCTGGTGATTATGGGTAGGA	1260
TTTCTTACTGGTGTTGGAGAAGTCACCTTCCATTTGTCTTAGACCACTAATACCCATCCT	
AAACCTGGTTCTCCATTCCTGAGAAGAATCGACCTTTAAAGGACAGAATTAATATAGTTC	1320
TTTGGACCAAGAGGTAAGGACTCTTCTTAGCTGGAAATTTCCTGTCTTAATTATATCAAG	
SacI BstXI	
TCAGTAGAGAACTCAAAGAACCACCACGAGGAGCTCATTTTCTTGCCAAAAGTTTGGATG	1380
AGTCATCTCTTGAGTTTCTTGGTGGTGCTCCTCGAGTAAAAGAACGGTTTTCAAACCTAC	

## FIG. 29C

AflII	
ATGCCTTAAGACTTATTGAACAACCGGAATTGGCAAGTAAAGTAGACATGGTTTGGATAG  1381	1440
TACGGAATTCTGAATAACTTGTTGGCCTTAACCGTTCATTTCATCTGTACCAAACCTATC	
TCGGAGGCAGTTCTGTTTACCAGGAAGCCATGAATCAACCAGGCCACCTCAGACTCTTTG  1441+ AGCCTCCGTCAAGACAAATGGTCCTTCGGTACTTAGTTGGTCCGGTGGAGTCTGAGAAAC	1500
TGACAAGGATCATGCAGGAATTTGAAAGTGACACGTTTTTCCCAGAAATTGATTTGGGGA	1560
ACTGTTCCTAGTACGTCCTTAAACTTTCACTGTGCAAAAAGGGTCTTTAACTAAACCCCT  AATATAAACTTCTCCCAGAATACCCAGGCGTCCTCTGAGGTCCAGGAGGAAAAAGGCA  1561+ TTATATTTGAAGAGGGTCTTATGGGTCCGCAGGAGAGACTCCAGGTCCTCTTTTCCGT	1620
TCAAGTATAAGTTTGAAGTCTACGAGAAGAAGACTAACAGGAAGATGCTTTCAAGTTCT	1680
AGTTCATATTCAAACTTCAGATGCTCTTCTTTCTGATTGTCCTTCTACGAAAGTTCAAGA	
BglII 	
CTGCTCCCTCCTAAAGCTATGCATTTTTATAAGACCATGGGACTTTTGCTGGCTTTAGA	1740
GACGAGGGGAGGATTTCGATACGTAAAAATATTCTGGTACCCTGAAAACGACCGAAATCT	
TCTGAAACACTGAAATTGTCTGCTTCTCATCTTCAGTGAGATTCCAAAGGATAGTACAGT	1800
AGACTTTGTGACTTTAACAGACGAAGAGTAGAAGTCACTCTAAGGTTTCCTATCATGTCA	1000
GACAGAACAAGAATAGGCACTCTCTACAAAAAAAAGAAAG	1860
CTGTCTTGTTCTTATCCGTGAGAGATGTTTTTTTTTTTT	
GCATAATAGCTACTGTTAAGAACTCAGAGATAATGAATTGAGAATGGATACTGCTTGAAA	1920
CGTATTATCGATGACAATTCTTGAGTCTCTATTACTTAACTCTTACCTATGACGAACTTT	
TGAAAATTTAATAAGTTAGAAACTAAACTTTATAAAAAATAAAAAATGAGCATTAAAAAA 1921+	1980
ACTTTTAAATTATTCAATCTTTGATTTGAAATATTTTTTTT	2500
NheI	
AAAAAAAAAAAAAAAAAAAAAACCCCCCCCCCCCCCCC	2040
TTTTTTTTTTTTTTTTTTTGGGGGGGGGGGGGGGGGGCGTCGGTTCGATCGA	

#### FIG. 29D

BspLU11I	
AGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAA 2041+	2100
TCCCCTATTGCGTCCTTTCTTGTACACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATT	
AAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAA	2160
TTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGGACTGCTCGTAGTGTTTTT	
TCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCC	2220
AGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCCTGATATTTCTATGGTCCGCAAAGG	
CCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTC	2280
GGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAG	
CGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAG	2340
GCGGAAAGAGCCCTTCGCACCGCGAAAGAGTATCGAGTGCGACATCCATAGAGTC	
TTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGA 2341+	2400
AAGCCACATCCAGCAAGCGAGGTTCGACCCGACACACGTGCTTGGGGGGGCAAGTCGGGCT	
CCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATC 2401+	2460
GGCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGTGCTGAATAG	
GCCACTGGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTAC 2461+ CGGTGACCGTCGTCGGTGACCATTGTCCTAATCGTCTCGCTCCATACATCCGCCACGATG	2520
AGAGTTCTTGAAGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTG	
AGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTACGACTACACTACGACTACGACTACACTACGACTACGACTACGACTACGACTACGACTACGACTACGACTACGACTACGACTACGACTACGACTACGACCTACGACTACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACCATACGACACATACACACAC	2580
CCCTCTCCTCAACCCACTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACA	
2581+ GCGAGACGACTTCGGTCAATGGAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTGT	2640
HgiEII	
AACCACCGCTGGTAGCGGTGGTTTTTTTTTTTTTTTTTT	2700
A CCAMCHOA A CA A CAMCCHUTGA TOTTTOTACGGGGTOTGACGCTCAGTGGAACGAAAA	2760
2701++	- 2/00

# FIG. 29E

CTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTT	2820
2761+++++++	_
AAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAG	- 2880
2821TTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTTGAACCAGACTGTC	
TTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCAT 2881+	2940
AATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTA	
AGTTGCCTGACTCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCC	⊦ 3000
TCAACGGACTGAGGGGCAGCACATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGG	
CAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAA 3001	+ 3060
GTCACGACGTTACTATGGCGCTCTGGGTGCCGAGGTCTAAATAGTCGTTATTT	
CCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCA	+ 3120
GGTCGGTCGGCCTTCCCGGCTCTTCACCAGGACGTTGAAATAGGCGGAGGTAGGT	
GTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAA 3121	+ 3180
CAGATAATTAACAACGGCCCTTCGATCTCATTCATCAAGCGGTCAATTATCAAACGCGTT	
CGTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATT 3181	+ 3240
GCAACAACGGTAACGACGTCCGTAGCACCACAGTGCGAGCAGCAAACCATACCGAAGTAA	
CAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGC 3241++++	+ 3300
EaeI  PvuI GdiII      GGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGT	. 2260
3301+++	-+ 3360
CATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTC	-+ 3420
GTACCAATACCGTCGTGACGTATTAAGAGAATGACAGTACGGTAGGCATTCTACGAAAAG	
BcgI   TGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTG	-+ 3480
3421+++	. 3.30

# FIG. 29F

CTCT 3481	TGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCT	3540
GAGA	ACGGGCCGCAGTTGTGCCCTATTATGGCGCGCGTGTATCGTCTTGAAATTTTCACGA	
CATC	ATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATC	3600
GTAG	TAACCTTTTGCAAGAAGCCCCGCTTTTGAGAGTTCCTAGAATGGCGACAACTCTAG	
CAGT	TCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAG	3660
GTCA	AGCTACATTGGGTGAGCACGTGGGTTGACTAGAAGTCGTAGAAAATGAAAGTGGTC	
CGTT	TTCTGGGTGAGCAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGAC	3720
GCAA	AGACCCACTCGTTTTTGTCCTTCCGTTTTACGGCGTTTTTTCCCTTATTCCCGCTG	
	SspI	
	SAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGG	3780
TGC	CTTTACAACTTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCC	
3781	TTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGT	3840
AATA	AACAGAGTACTCGCCTATGTATAAACTTACATAAATCTTTTTTATTTGTTTATCCCCA	
	GCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGAC	3900
3841	CGCGTGTAAAGGGGCTTTTCACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTG	
ATT	AACCTATAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGAATTCCCTGTGGA	3960
3901 - TAA	TTGGATATTTTTATCCGCATAGTGCTCCGGGAAAGCAGAAGTTCTTAAGGGACACCT	
ATG	TGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAG	4020
3961 - TAC	ACACAGTCAATCCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGTC	
GCA	TGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCA	4080
4021 - CGT	ACGTAGAGTTAATCAGTCGTTGGTCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGT	••••
GAA	GTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCTAACTCCGC	- 4140
4081 - CTT	CATACGTTTCGTACGTAGAGTTAATCAGTCGTTGGTATCAGGGCGGGGATTGAGGCG	
CCA	ATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTT	+ <b>42</b> 00
4141	AGGGCGGGGATTGAGGCGGGTCAAGGCGGGTAAGAGGCGGGGTACCGACTGATTAAA	

## FIG. 29G

SfiI	
TTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAG	260
AAAATAAATACGTCTCCGGCTCCGGCGGAGCCCGGAGACTCGATAAGGTCTTCATCACTC	
AvrII	
GAGGCTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTGGTCGAGGCTCGCATCTCTCCTT  4261+	1320
CTCCGAAAAACCTCCGGATCCGAAAACGTTTTTCGACCAGCTCCGAGCGTAGAGAGGAA	
CACGCGCCGCCGCCTACCTGAGGCCGCCATCCACGCCGGTTGAGTCGCGTTCTGCCGC 4321+	4380
GTGCGCGGCGGCGGATGGACTCCGGCGGTAGGTGCGGCCAACTCAGCGCAAGACGGCG	
CTCCCGCCTGTGGTGCCTCCTGAACTGCGTCCGCCGTCTAGGTAAGTTTAAAGCTCAGGT 4381+	4440
GAGGGCGGACACCACGGAGGACTTGACGCAGGCGGCAGATCCATTCAAATTTCGAGTCCA	
NgoAIV	
CGAGACCGGGCCTTTGTCCGGCGCTCCCTTGGAGCCTACCTA	4500
GCTCTGGCCCGGAAACAGGCCGCGAGGGAACCTCGGATGGAT	
CGCTTTGCCTGACCCTGCTTGCTCAACTCTACGTCTTTGTTTCGTTTTCTGTTCTGCGCCC	4560
GCGAAACGGACTGGGACGAACGAGTTGAGATGCAGAAACAAAGCAAAAGACAAGACGCGG	
HpaI	
GTTACAGATCCGTCGAGGAACTGAAAAACCAGAAAGTTAACTGGTAAGTTTAGTCTTTTT 4561+++	4620
CAATGTCTAGGCAGCTCCTTGACTTTTTGGTCTTTCAATTGACCATTCAAATCAGAAAAA	
Psp5II BamHI	
 GTCTTTTATTTCAGGTCCCGGATCCGGTGGTGGTGCAAATCAAAGAACTGCTCCTCAGTG	4680
4621++++	- ·
GATGTTGCCTTTACTTCTAGGCCTGTACGGAAGTGTTACTTCTGCTCTAAAAGCTGCTGC 4681+	4740
CTACAACGGAAATGAAGATCCGGACATGCCTTCACAATGAAGACGAGATTTTCGACGACG	
HindIII XbaI BssHII	
AACAAGCTTCTAGACCACCATGAACAAGTTGCTGTGCTG	4800
TTGTTCGAAGATCTGGTGGTACTTGTTCAACGACGCGCGGGGGCACAAAGACCTGTT	
b MNKLLCCALVEDOI	

#### FIG. 29H

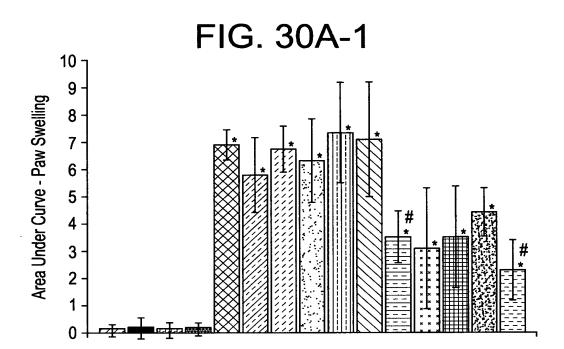
	CTCCATTAAGTGGACCACCCAGGAAACGTTTCCTCCAAAGTACCTTCATTATGACGAAGA	4860
b	4801+ GAGGTAATTCACCTGGTGGGTCCTTTGCAAAGGAGGTTTCATGGAAGTAATACTGCTTCT SIKWTTQETFPPKYLHYDEE-	
	KpnI	
	AACCTCTCATCAGCTGTTGTGACAAATGTCCTCCTGGTACCTACC	4920
b	TTGGAGAGTAGTCGACAACACACTGTTTACAGGAGGACCATGGATGG	
	TACAGCAAAGTGGAAGACCGTGTGCGCCCCTTGCCCTGACCACTACTACACAGACAG	4980
b	ATGTCGTTTCACCTTCTGGCACACGCGGGAACGGGACTGGTGATGATGTGTCTGTC	
	GCACACCAGTGACGAGTGTCTATACTGCAGCCCCGTGTGCAAGGAGCTGCAGTACGTCAA	5040
b	CGTGTGGTCACTGCTCACAGATATGACGTCGGGGCACACGTTCCTCGACGTCATGCAGTT	
	RleAI BsmI	
	GCAGGAGTGCAATCGCACCCACAACCGCGTGTGCGAATGCAAGGAAGG	5100
b	CGTCCTCACGTTAGCGTGGGTGTTGGCGCACACGCTTACGTTCCTTCC	
Ŀ	GATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCCTGGATTTGGAGTGGTGCAAGCTGG  5101+++  CTATCTCAAGACGAACTTTGTATCCTCGACGGAGGACCTAAACCTCACCACGTTCGACC  I E F C L K H R S C P P G F G V V Q A G -	5160
	BsmBI	
	AACCCCAGAGCGAAATACAGTTTGCAAAAGATGTCCAGATGGGTTCTTCTCAAATGAGAC 5161++	<b>→ 5220</b>
ł	TTGGGGTCTCGCTTTATGTCAAACGTTTTCTACAGGTCTACCCAAGAAGAGTTTACTCTG  T P E R N T V C K R C P D G F F S N E T -	
	GTCATCTAAAGCACCCTGTAGAAAACACACAAATTGCAGTGTCTTTTGGTCTCCTGCTAAC	+ 5280
1	5221	
	BspEI	
	TCAGAAAGGAAATGCAACACACGACAACATATGTTCCGGAAACAGTGAATCAACTCAAAA  5281++++++	+ 5340
	b QKGNATHDNICSGNSESTQK-	

## FIG. 29 I

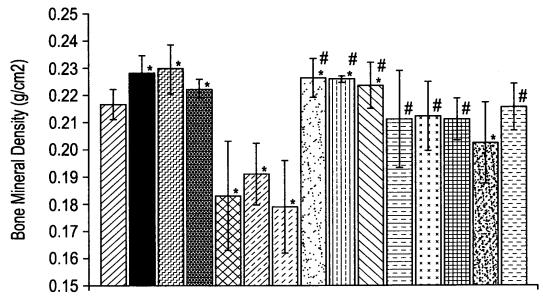
	SalI BmgI	
		5400
_	TCAGCTGTTTTGAGTGTGTACGGGTGGCACGGGTCGTGGACTTGAGGACCCCCCTGGCAG  V D K T H T C P P C P A P E L L G G P S -	
ь	THE STATE OF THE SECONDARY COUNTY OF THE SECONDARY COU	
	5401	5460
b	TCAGAAGGAGAAGGGGGTTTTGGGTTCCTGTGGGAGTACTAGAGGGCCTGGGGACTCCA V F L F P P K P K D T L M I S R T P E V -	
	BtrI	
	CACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGT	5520
ь	GTGTACGCACCACCTGCACTCGGTGCTTCTGGGACTCCAGTTCAAGTTGACCATGCA  T C V V D V S H E D P E V K F N W Y V -	
	SacII	
	GGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCAC 5521++	5580
b	CCTGCCGCACCTCCACGTATTACGGTTCTGTTTCGGCGCCCCTCCTCGTCATGTTGTCGTG  D G V E V H N A K T K P R E E Q Y N S T -	
	GTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTA 5581++	5640
b	CATGGCACCAGTCGCAGGAGTGGCAGGACGTGGTCCTGACCGACTTACCGTTCCTCAT Y R V V S V L T V L H Q D W L N G K E Y -	
	CAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGC	5700
b	GAGTGCAAGGTCTCCAACAAAGCCCTCCTCTCCCTCCCTC	
	SmaI	
	CAAAGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGAC	5760
Ŀ	GTTTCCCGTCGGGGCTCTTGGTGTCCACATGTGGGACGGGGGTAGGGCCCTACTCGACTG  K G Q P R E P Q V Y T L P P S R D E L T -	
	CAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGT	5820
	CAAGAACCAGGTCAGCCTGACCTGCTGGTCAAAGGTTCTTGTTCTGTCAGCTGACCTGCCTG	3020
k		
	GGAGTGGGAGGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGA 5821	5880
	CCTCACCCTCTCGTTACCCGTCGGCCTCTTGTTGATGTTCTGGTGCGGAGGGCACGACCT	
3	EMESUGÖLFUUTUTTII	

# FIG. 29J

	Aari   	5940
b	5881GAGGCTGCCGAGGAAGAAGGAGATGTCGTTCGAGTGGCACCTGTTCTCGTCCACCGTCGT  GAGGCTGCCGAGGAAGAAGGAGATGTCGTTCGAGTGGCACCTGTTCTCGTCCACCGTCGT  S D G S F F L Y S K L T V D K S R W Q Q -	
	SapI	
	 	6000
	5941	
ь	CACCCTCTCCCTGTCTCCGGGTAAATGATAACTCGAC	
	6001 6037 CTCGGAGAGGGCCCATTTACTATTGAGCTG	
b	C C C C C C C	









Normal + 4 mg/kg OPG-Fc (s.c.)

Normal + 1.0 mg/kg OPG-Fc (s.c.)

Normal + 0.25 mg/kg OPG-Fc (s.c.)

AdA Control

AdA + CSEP (2ML1)

AdA + OPG Placebo (s.c.)

AdA + 4 mg/kg OPG-Fc (s.c.)

AdA + 1.0 mg/kg OPG-Fc (s.c.)

AdA + 0.25 mg/kg OPG-Fc (s.c.)

15.0 mg/kg/hr IL-1ra (2ML1)

5.0 mg/kg/hr IL-1ra (2ML1)

1.0 mg/kg/hr IL-1ra (2ML1)

**EZZ 0.2 mg/kg/hr IL-1ra (2ML1)** 

AdA + 0.07 mg/kg Dexamethasone (s.c.)

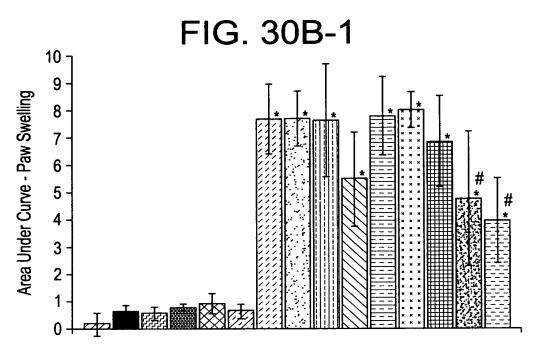
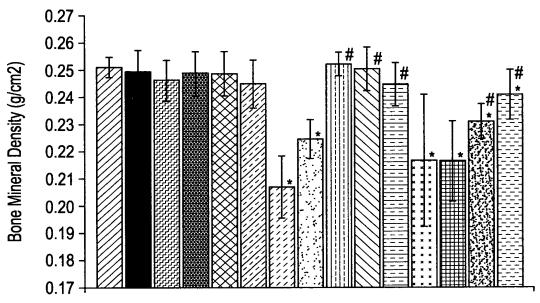


FIG. 30B-2





Normal + 1.0 mg/kg OPG-Fc (s.c.)

Normal + 0.25 mg/kg OPG-Fc (s.c.)

Normal + 0.0625 mg/kg OPG-Fc (s.c.)

Normal + 0.016 mg/kg OPG-Fc (s.c.)

Normal + 0.004 mg/kg OPG-Fc (s.c.)

ZZZ AdA control

AdA + OPG Placebo (s.c.)

AdA + 1.0 mg/kg OPG-Fc (s.c.)

 $\triangle$  AdA + 0.25 mg/kg OPG-Fc (s.c.)

AdA + 0.0625 mg/kg OPG-Fc (s.c.)

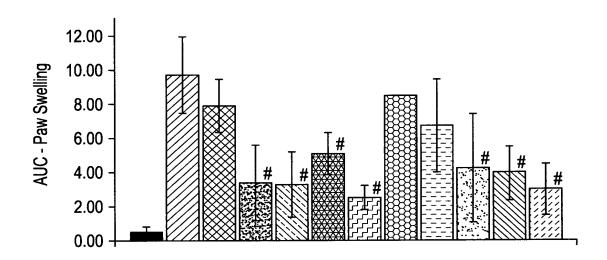
AdA + 0.016 mg/kg OPG-Fc (s.c.)

**AdA** + 0.004 mg/kg OPG-Fc (s.c.)

AdA + 5.0 mg/kg/hr IL-1ra (2ML1)

AdA + 0.07 mg/kg Dexamethasone (s.c.)

**FIG. 31A** 



NT

ZZZ AdA

**⊠** Vehicle

型置 0.2 mg/kg/hr IL-1ra

1.0 mg/kg/hr IL-1ra

0.25 mg/kg s-TNF-R1

に記述 1.0 mg/kg s-TNF-R1

DEED 0.03 mg/kg OPG-Fc

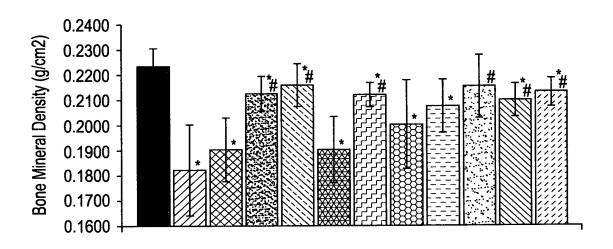
0.2 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

1.0 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

0.25 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc

1.0 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc

#### FIG. 31B



NT

ZZZ AdA

**⊠** Vehicle

型置 0.2 mg/kg/hr IL-1ra

1.0 mg/kg/hr IL-1ra

₩₩ 0.25 mg/kg s-TNF-R1

[正元] 1.0 mg/kg s-TNF-R1

0.03 mg/kg OPG-Fc

0.2 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

1.0 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

0.25 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc

1.0 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc